

**Request to Archive
With The National Centers for Environmental Information
For Global Historical Climatology Network-Monthly version 4
Provided by NCDC/GCAD/IAB**

2015-09-24

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?

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2. Name the organization or group responsible for creating the dataset.

GCAD/IAB

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.

The GHCN-Monthly version 4 dataset. Monthly mean, max, and min temperature - both raw and bias corrected data. This dataset will be constructed from the International Surface Temperature Initiative's Global Databank (which is archived under a separate agreement). This is the core global dataset used for climate monitoring and assessment activities.

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)

From 1760

Ongoing as continuous updates to the data record

5. Edition or version number(s) of the dataset:

version 4

6. Approximate date when the dataset was or will be released to the public:

2013-04-01

7. Who are the expected users of the archived data? How will the archived data be used?

NCDC CMB, NASA, others in the national and international community, in large part for monitoring climate and climate change on a regional to global scale.

8. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?

A peer-reviewed paper will be completed.

9. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?

This dataset will be constructed from the ISTI Global Databank - which contains 45 or more sources of data including data from GHCN-Daily.

10. List the input datasets and ancillary information used to produce the data.

GHCN-M v4 will be constructed from the raw observations collected and merged as part of the International Surface Temperature Initiative's Global Databank effort.

11. List web pages and other links that provide information on the data.

Metadata will be similar to metadata maintained for GHCN-Daily and managed by the in situ metadata team.

12. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.

1. Readme files containing information on format, flags, etc.
2. Journal article describing the v4 dataset, qc, and bias correction algorithm.

13. Indicate the data file format(s).

1. ASCII

14. Are the data files compressed?

gzip

15. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).

ghcnm.tavg.v4.0.0.yearmoda.qca.tar.gz
ghcnm.tavg.v4.0.0.yearmoda.qcu.tar.gz
ghcnm.tavg.v4.0.0.yearmoda.qcf.tar.gz
ghcnm.tmax.v4.0.0.yearmoda.qca.tar.gz
ghcnm.tmax.v4.0.0.yearmoda.qcu.tar.gz
ghcnm.tmax.v4.0.0.yearmoda.qcf.tar.gz
ghcnm.tmin.v4.0.0.yearmoda.qca.tar.gz
ghcnm.tmin.v4.0.0.yearmoda.qcu.tar.gz
ghcnm.tmin.v4.0.0.yearmoda.qcf.tar.gz

16. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?

Samples from version 3 (which is similar to the format of v4) are available at <ftp://ftp.ncdc.noaa.gov/pub/data/ghcn/v3/>

17. What is the total data volume to be submitted?

Historic Data: all historic data or data submitted as a completed collection.

Total Data Volume: 250MB

Number of Data Files: 6

Continuous Data: data volume rate for a continuous data production.

Total Data Volume Rate: 100KB per Month

Data File Frequency: 6 per Day

Data Production Start: 2015-12-15

18. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.

The dataset will have a 3 digit version number which can be updated to reflect major, moderate, and minor updates to the dataset. It will also contain a timestamp to document the time 'new' data were added during routine operational processing.

19. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location: Asheville

System Name: GHCN-Monthly

System Owner: CWC/CSD/DSB

Additional Information: Add comments as needed on applicable data types, etc.

20. What are the possible methods for submitting the data to NCEI? Select all that apply.

1. FTP PUSH

21. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.

1. User interface to order and stage data for download

2. Direct download links

22. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?

No known constraints apply to the data.

23. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.

GHCN-Monthly version 3 temperature is currently produced and archived each month. This is the follow-on version containing 4 to 5 times the number of stations.

24. Are the data archived at another facility or are there plans to do so? Please explain.

No

25. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?

Commitment to NOAA climate monitoring activities and users in the international community.

26. Do you have a data management plan for your data?

No

27. Have funds been allocated to archive the data at NCEI?

No

28. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.

N/A

29. Is there a desired deadline for NCEI to archive and provide access to the data?

Archive by: 2015-12-15

Accessible by:

30. Add any other pertinent information for this request.

None